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REPORT NO. 7

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MARKETING SERVICE RECORDS

Cotton Fiber and Processing Test Results

CROP of

1972



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 November 10, 1972

This is the seventh of a series of reports of fiber and processing test results from the 1972 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1971", April 1972. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, P. O. Box 17723, Memphis, TN 38117.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1972

Discussion of Test Results

Cotton testing laboratories of the Agricultural Marketing Service, USDA, report that average fiber properties for all medium staple samples tested through November 3 to be about the same except for stronger fibers at both zero and 1/8" gage. Average spinning potential yarn number is higher than last year.

Southwest short staple samples tested show longer, finer and stronger fibers than last season. Shirley Analyzer nonlint content is lower. Yarns spun from these samples are stronger. The average spinning yarn number is higher than last year.

Medium staple samples tested from the Southeast show stronger fibers than a year ago. Shirley Analyzer nonlint content is lower as is picker and card waste. Yarns spun from these samples are stronger. Appearance grades were lower as compared to last season. Average spinning potential yarn number is higher than a year ago.

South Central medium staple samples tested this season are shorter. Fiber strength is stronger than a year ago. Yarns spun from these samples were about the same, except for fewer imperfections than last season. Average spinning potential yarn number is higher this season.

Southwest medium staple samples tested to date show fiber properties to be about the same, except for weaker strength at zero gage than last season. Yarns spun from these samples show more imperfections. Average spinning potential yarn number is higher than last season.

Medium staple samples tested from the West show longer, finer and stronger fibers than last year at this time. Yarns spun from these samples are stronger and show fewer imperfections. Average spinning potential yarn number is higher than last year.

Average value for long staple samples tested to date show shorter and stronger fibers than a year ago. Picker and card waste is lower, however, comber waste is higher than last year. Yarns are stronger, with lower appearance grades than a year ago. Average spinning potential yarn number is higher.

Long staple samples tested from the Southeast are shorter and stronger than last season. Picker and card waste is lower. Comber waste is higher than last season. Yarns are weaker and have lower appearance grades. More imperfections were found as compared to last season.

Long staple samples tested from the West show shorter and stronger fibers than a year ago. Picker and card waste is lower. Comber waste is higher than last season. Yarns are weaker and show lower appearance grades. Average spinning potential yarn number is higher.

Extra long staple samples tested from the West show stronger fiber properties at Zero gage strength. Shirley Analyzer nonlint content is lower. Picker and card waste is lower than a year ago. Comber waste is higher than last year. Yarns are weaker and show lower appearance grades and more imperfections than last year.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 3, 1972 1/

| Staple group Area, and Crop year | Lots tested | Fiber test results | | | | | | | Processing test results | | | | | | | |
|---|----------------|--------------------|-----------------|-----------------------|----------------|------|----------------|----------------|-------------------------|-------|------|------------------|---------------|-----------------|--------------------|-----|
| | | Fibrograph | | Mike fine- ness | Fiber strength | | S A nonlint | P & C waste | Yarn quality | | | Spin. Potent. | | | | |
| | | 2.5% span | 50/2.5 unif. | | Pct. | Rdg. | | | Mpsi | G/tex | Pct. | | Skein str. | Appear- ance | Imperf- ections | |
| | | | | Inches | | | Pct. | Lbs. | | | | Index | | | | No. |
| | | | | | | | | | | | | | | | | |
| <u>Short Staple:</u> Southwest 1971 1972 | 18 | 0.96 | 45 | 5.0 | 81 | 20 | 3.4 | 6.2 | 85 | 121 | 24 | 37 | | | | |
| | 16 | 0.98 | 45 | 4.4 | 83 | 21 | 2.9 | 5.8 | 95 | 118 | 23 | 48 | | | | |
| | 26 | 1.08 | 45 | 4.4 | 80 | 22 | 3.4 | 6.2 | 103 | 110 | 19 | 62 | | | | |
| | 24 | 1.08 | 45 | 4.3 | 84 | 23 | 2.8 | 5.8 | 107 | 104 | 18 | 68 | | | | |
| South Central 1971 1972 | 53 | 1.11 | 45 | 4.5 | 81 | 22 | 2.9 | 5.6 | 105 | 113 | 20 | 63 | | | | |
| | 73 | 1.09 | 45 | 4.5 | 85 | 23 | 2.7 | 5.8 | 106 | 112 | 18 | 66 | | | | |
| | 27 | 1.07 | 45 | 4.6 | 86 | 22 | 3.0 | 5.6 | 103 | 121 | 19 | 59 | | | | |
| | 26 | 1.07 | 46 | 4.5 | 84 | 22 | 2.9 | 6.0 | 103 | 121 | 22 | 63 | | | | |
| Southwest 1971 1972 | 7 | 1.08 | 44 | 4.6 | 85 | 22 | 2.6 | 5.2 | 105 | 120 | 22 | 58 | | | | |
| | 11 | 1.10 | 45 | 4.4 | 88 | 24 | 2.2 | 5.1 | 109 | 120 | 16 | 66 | | | | |
| | 113 | 1.09 | 45 | 4.5 | 82 | 22 | 3.0 | 5.7 | 104 | 115 | 20 | 62 | | | | |
| | 134 | 1.09 | 45 | 4.4 | 85 | 23 | 2.7 | 5.7 | 106 | 114 | 19 | 66 | | | | |
| West 1971 1972 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| U.S. Average 1971 1972 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Significant dif- ference | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States
through November 3, 1972

1/ (Continued)

| Staple group, Area, and Crop year | Lots | Fiber Test Results | | | | | | Processing Test Results | | | | | | | | | | SPY |
|---|---------------|--------------------|-------|------|------|----------|-------|-------------------------|--------------|-----------------|--------------|--------|--------------------|--------|----------------------|-------------------|--------|-----|
| | | Length | | Unif | Mike | Strength | | SA Non- lint | P&C Waste | Comber Waste | Yarn Quality | | | | | | | |
| | | Span | gauge | | | Zero | gauge | | | | carded | combed | Strength carded | combed | Appearance carded | Imprfctns card | combed | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| No. | In. | Pct. | Rdg. | Mpsi | G/tx | Pct. | Pct. | Pct. | Lbs. | Lbs. | Indx | Indx | No. | No. | No. | | | |
| 22s Carded & Combed Yarn | | | | | | | | | | | | | | | | | | |
| Long Staple: Southeast | 6 | 1.16 | 43 | 4.4 | 82 | 23 | 4.1 | 9.4 | 16.6 | 107 | 123 | 108 | 125 | 19 | 7 | 66 | | |
| | 7 | 1.09 | 43 | 4.4 | 86 | 23 | 3.7 | 8.7 | 18.5 | 102 | 120 | 104 | 116 | 21 | 11 | 65 | | |
| South Central | 1 | 1.21 | 42 | 4.1 | 79 | 24 | 4.5 | 8.8 | 16.2 | 113 | 130 | 100 | 100 | 20 | 12 | 71 | | |
| | 2 | 1.17 | 45 | 4.4 | 90 | 25 | 3.8 | 8.1 | 15.7 | 117 | 132 | 105 | 115 | 15 | 10 | 78 | | |
| West | 2 | 1.20 | 44 | 3.8 | 92 | 28 | 2.2 | 7.8 | 13.8 | 136 | 149 | 105 | 100 | 22 | 16 | 80 | | |
| | 5 | 1.18 | 45 | 3.9 | 94 | 26 | 2.3 | 6.8 | 15.5 | 130 | 149 | 92 | 98 | 25 | 13 | 86 | | |
| U. S. Average | 9 | 1.17 | 43 | 4.2 | 84 | 24 | 3.7 | 9.0 | 15.9 | 114 | 130 | 106 | 117 | 20 | 10 | 70 | | |
| | 14 | 1.15 | 44 | 4.2 | 90 | 25 | 3.3 | 7.9 | 16.6 | 116 | 134 | 100 | 110 | 20 | 11 | 76 | | |
| 50's Combed Yarn | | | | | | | | | | | | | | | | | | |
| Extra Long Staple: West | American Pima | | | | | | | | | | | | | | | | | |
| | Array | | | | | | | | | | | | | | | | | |
| 1971 1972 | 4 | 1.47 | 31 | 3.8 | 98 | 33 | 2.5 | 8.0 | 17.1 | 66 | 66 | 130 | 130 | 2 | 2 | | | |
| | 3 | 1.47 | 32 | 3.8 | 100 | 32 | 1.9 | 7.3 | 17.6 | 63 | 63 | 113 | 113 | 4 | 4 | | | |
| Significant Difference 2/ | | 0.02 | 2 | 0.2 | 2 | 1 | 0.5 | 0.5 | 0.5 | 4(22s) | 5 | 5 | 5 | 2 | 2 | 3 | | |
| | | | | | | | | | | 4(22s) | | | | | | | | |

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1972

| Production Area, Classification | | Fiber Test Results | | | | | | | | | | Processing Test Results - Carded Yarns | | | | | | | | | |
|------------------------------------|-------|-----------------------|------|------|-------------------|-------|------------------------|----------------------|-----|--------------------|-----|--|-------------------|----------------|-------------------|----------------|---------------------|----------------|-------------------|----------------|-------------------------|
| | | Digital Fibrograph | | Mike | Fiber Strength | | Elon- gat'n 1/8" | S.A. Non- lint | | Color Raw Stock | | P & C Waste | Strength | | Elongation | | Appearance Index | | Imprfct'ns | | Spin. Poten- tial |
| | | | | | | | | | | | | | | | | | | | | | |
| No | Grade | 2.5% | Unif | | Zero | 1/8" | | | | Gra | Yel | | 8s or 7 1/4 tx | 22sor 27 tx | 8s or 7 1/4 tx | 22sor 27 tx | 8s or 7 1/4 tx | 22sor 27 tx | 8s or 7 1/4 tx | 22sor 27 tx | No |
| Name & Code | Style | span | Pct | Rdg | Mpsi | G/tex | Pct | Pct | No | No | No | Pct | Lbs | Lbs | Pct | Pct | No | No | No | No | No |
| | 32s | In | | | | | | | | | | | | | | | | | | | |
| WESTERN NORTHWEST TEXAS AREA | | | | | | | | | | | | | | | | | | | | | |
| WINTERS | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM LT SP | 42 | 30 | 1.00 | 47 | 4.4 | 76 | 21 | 7.2 | 3.6 | 3 | 3 | 90 PERCENT | 315 | 96 | 7.4 | 6.4 | 120 | 120 | 41 | 24 | 47 |

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| Production Area, Classification | | | | Fiber Test Results | | | | | | | | | | Processing Test Results - Carded Yarns | | | | | | | | | |
|---------------------------------|-----------|-------|-----|--------------------|-----|------|----------------|------|------------------|---------------|-----------------|-----|-------------|--|-----|--------------|--------------|------------------|--------------|--------------|----|-----------------|----|
| Sample Number | | | | Digital Fibrograph | | Mike | Fiber Strength | | Elon- gat'n 1/8" | S.A. Non-Lint | Color Raw Stock | | P & C Waste | Strength | | Elongation | | Appearance Index | | Imprfect'ns | | Spin. Potential | |
| No | Grade | Stple | 32s | In | Pct | | Rdg | Mpsi | | | G/tex | Pct | | No | Yel | 22s or 27 tx | 50s or 12 tx | Pct | 22s or 27 tx | 50s or 12 tx | No | | No |
| SOUTHEASTERN AREA | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | |
| CHEROKEE | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | 41 | 34 | 1.08 | 43 | 4.1 | 74 | 22 | 8.5 | 1.7 | 2 | 3 | 85 PERCENT | 35 | 7.2 | 5.3 | 100 | 70 | 28 | 15 | 69 | | |
| DEATSVILLE | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 35 | 1.14 | 46 | 4.1 | 88 | 25 | 6.6 | 3.3 | 3 | 3 | 100 PERCENT | 44 | 6.6 | 5.0 | 100 | 70 | 28 | 14 | 75 | | |
| JEFF | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM LT SP | 42 | 34 | 1.08 | 43 | 4.2 | 80 | 21 | 7.6 | 3.4 | 4 | 4 | 93 PERCENT | 32 | 6.4 | 4.5 | 100 | 80 | 17 | 12 | 62 | | |
| TONEY | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM LT SP | 42 | 33 | 1.04 | 42 | 3.9 | 84 | 21 | 6.4 | 1.8 | 3 | 4 | 92 PERCENT | 31 | 6.1 | 4.3 | 90 | 70 | 11 | 11 | 60 | | |
| TUSCUMRIA | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LM | 51 | 34 | 1.10 | 46 | 4.7 | 78 | 22 | 7.2 | 2.9 | 4 | 4 | 100 PERCENT | 32 | 6.7 | 5.1 | 100 | 80 | 22 | 15 | 64 | | |
| TUSKEGEE | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.09 | 45 | 4.3 | 81 | 24 | 8.5 | 1.9 | 2 | 3 | 99 PERCENT | 39 | 6.7 | 5.3 | 110 | 70 | 14 | 9 | 70 | | |
| TYLER | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.11 | 47 | 4.6 | 87 | 25 | 5.8 | 2.5 | 3 | 2 | 85 PERCENT | 40 | 6.2 | 4.9 | 100 | 90 | 16 | 15 | 64 | | |
| GEORGIA | | | | | | | | | | | | | | | | | | | | | | | |
| COLBERT | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | 41 | 34 | 1.07 | 47 | 4.6 | 94 | 23 | 7.0 | 2.7 | 2 | 3 | 100 PERCENT | 38 | 6.7 | 5.0 | 120 | 90 | 12 | 8 | 74 | | |
| GOUGH | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.05 | 46 | 4.9 | 88 | 23 | 6.0 | 2.9 | 1 | 3 | 85 PERCENT | 33 | 6.1 | 4.2 | 120 | 90 | 8 | 10 | 63 | | |
| PINEHURST | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 34 | 1.10 | 44 | 3.8 | 82 | 22 | 6.7 | 3.7 | 3 | 3 | 75 PERCENT | 41 | 6.7 | 5.2 | 90 | 70 | 16 | 18 | 69 | | |
| SHELLMAN | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 33 | 1.05 | 44 | 4.4 | 87 | 24 | 7.3 | 2.6 | 2 | 3 | 80 PERCENT | 38 | 6.4 | 5.1 | 110 | 70 | 10 | 10 | 70 | | |
| NORTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | |
| LAURINHURG | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | 41 | 35 | 1.07 | 46 | 4.0 | 80 | 24 | 7.8 | 3.2 | 2 | 2 | 100 PERCENT | 41 | 6.8 | 5.3 | 90 | 70 | 19 | 16 | 71 | | |

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

| Production Area, Classification & Sample Number | | | | Fiber Test Results | | | | | | | | | | Processing Test Results - Carded Yarns | | | | | | | | | |
|---|-------|-------|-----|--------------------|-------|------|----------------|-----------|------------|-----|---------------|-----------------|-------------|--|----------|-----|------------|-----|------------------|-----|------------|-----|-----------------|
| No | Grade | Stple | 32s | Digital Fibrograph | | Mike | Fiber Strength | | Elon-gat'n | | S.A. Non-Lint | Color Raw Stock | | P & C Waste | Strength | | Elongation | | Appearance Index | | Imprfct'ns | | Spin. Potential |
| | | | | 2.5% span | Unif. | | Zero | 1/8" Gage | Pct | Pct | | G/tex | Mpsi | | Rdg | In | Pct | Gra | Yel | Lbs | Pct | Lbs | |
| SOUTHEASTERN AREA--(Continued) | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTH CAROLINA | | | | | | | | | | | | | | | | | | | | | | | |
| ST. MATTHEWS | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.10 | 48 | 4.4 | 83 | 22 | 7.3 | 3.7 | 2 | 3 | 100 PERCENT | | 40 | 6.6 | 5.3 | 100 | 80 | 22 | 15 | 70 | |
| YORK | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LM | 51 | 35 | 1.11 | 45 | 3.7 | 93 | 25 | 6.6 | 3.7 | 3 | 3 | 100 PERCENT | | 47 | 6.9 | 5.3 | 100 | 70 | 18 | 14 | 76 | |
| SOUTH CENTRAL AREA | | | | | | | | | | | | | | | | | | | | | | | |
| ARKANSAS | | | | | | | | | | | | | | | | | | | | | | | |
| ALTHEIMER | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.14 | 46 | 4.6 | 85 | 25 | 8.4 | 2.4 | 2 | 2 | 100 PERCENT | | 44 | 6.4 | 5.4 | 120 | 100 | 17 | 12 | 72 | |
| BAY | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 34 | 1.07 | 45 | 4.2 | 87 | 22 | 7.1 | 3.9 | 5 | 3 | 98 PERCENT | | 34 | 5.6 | 4.3 | 130 | 100 | 15 | 12 | 63 | |
| DUMAS | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.12 | 46 | 5.1 | 83 | 22 | 6.6 | 2.7 | 2 | 3 | 100 PERCENT | | 36 | 5.6 | 4.4 | 130 | 100 | 11 | 6 | 62 | |
| FRENCHMANSBAYOU | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.10 | 45 | 4.2 | 85 | 23 | 7.1 | 2.8 | 2 | 2 | 100 PERCENT | | 39 | 5.9 | 5.0 | 120 | 100 | 13 | 10 | 63 | |
| GRADY | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | 41 | 35 | 1.11 | 44 | 4.6 | 90 | 24 | 7.2 | 2.6 | 2 | 2 | 90 PERCENT | | 41 | 6.2 | 5.0 | 120 | 90 | 21 | 16 | 63 | |
| HELENA | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LM | 51 | 35 | 1.10 | 47 | 4.6 | 85 | 23 | 7.6 | 3.5 | 4 | 2 | 100 PERCENT | | 37 | 5.9 | 4.4 | 120 | 100 | 16 | 12 | 67 | |
| HUGHES | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 34 | 1.07 | 47 | 4.3 | 90 | 23 | 7.0 | 2.2 | 4 | 3 | 100 PERCENT | | 33 | 5.6 | 4.0 | 120 | 90 | 21 | 14 | 61 | |
| LEACHVILLE | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 34 | 1.07 | 47 | 4.0 | 85 | 23 | 7.3 | 3.2 | 4 | 3 | 100 PERCENT | | 37 | 6.0 | 4.7 | 120 | 100 | 19 | 11 | 63 | |
| LEACHVILLE | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.09 | 44 | 4.2 | 88 | 21 | 6.2 | 3.0 | 2 | 3 | 100 PERCENT | | 34 | 5.3 | 3.9 | 120 | 90 | 18 | 16 | 61 | |
| OSCEOLA | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 35 | 1.12 | 45 | 4.0 | 84 | 21 | 5.8 | 3.8 | 2 | 2 | 100 PERCENT | | 38 | 5.5 | 4.4 | 120 | 90 | 19 | 14 | 61 | |
| PARKIN | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LM | 51 | 34 | 1.07 | 46 | 4.4 | 88 | 21 | 6.8 | 2.7 | 5 | 3 | 80 PERCENT | | 34 | 5.1 | 3.9 | 120 | 100 | 12 | 9 | 63 | |

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972

| Production Area, Classification & Sample Number | | | | Fiber Test Results | | | | | | | | | | Processing Test Results - Carded Yarns | | | | | | | | | | |
|---|-------|-------------|------|--------------------|--------------------|-------|----------------|----------------|------|-----------------------|----------------|-----------------|-------|--|----------|-----|------------|-----|------------------|--------------|--------------|-----|--------------|-------------------|
| No | Grade | Name & Code | 32s | Stple | Digital Fibrograph | | Mike | Fiber Strength | | Elon- gat'n 1/8" Gage | S.A. Non- Lint | Color Raw Stock | | P & C Waste | Strength | | Elongation | | Appearance Index | | Imprfct'ns | | | Spin- Poten- tial |
| | | | | | 2.5% span | Unif. | | Zero Gage | Mpsi | | | Pct | G/tex | | Pct | Gra | Yel | Pct | Lbs | 22s or 27 tx | 50s or 12 tx | Pct | 22s or 27 tx | |
| SOUTH CENTRAL AREA--(Continued) | | | | | | | | | | | | | | | | | | | | | | | | |
| ARKANSAS--(Continued) | | | | | | | | | | | | | | | | | | | | | | | | |
| WILSON | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 LM | 51 | 34 | 1.09 | 45 | 4.1 | 88 | DELTAPINE 16 | | 24 | 8.4 | 3.3 | 4 | 2 | 100 PERCENT | 41 | 6.0 | 4.8 | 120 | 90 | 15 | 8 | 65 | | |
| WYNNE | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM | 41 | 34 | 1.07 | 45 | 4.5 | 86 | DELTAPINE 16 | | 24 | 7.6 | 2.8 | 3 | 3 | 100 PERCENT | 37 | 6.4 | 4.8 | 120 | 100 | 26 | 17 | 62 | | |
| LOUISIANA | | | | | | | | | | | | | | | | | | | | | | | | |
| LAFAYETTE | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM | 41 | 35 | 1.07 | 46 | 4.7 | 84 | STONEVILLE 213 | | 21 | 6.6 | 2.0 | 3 | 3 | 90 PERCENT | 32 | 5.5 | 4.3 | 120 | 90 | 15 | 10 | 57 | | |
| MONROE | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM LT SP | 42 | 35 | 1.06 | 45 | 4.5 | 88 | DELTAPINE 16 | | 23 | 7.9 | 2.3 | 3 | 3 | 100 PERCENT | 37 | 5.8 | 4.8 | 130 | 100 | 19 | 13 | 57 | | |
| OPELOUSAS | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM | 41 | 34 | 1.09 | 44 | 4.5 | 82 | DELTAPINE 45A | | 21 | 7.0 | 2.0 | 3 | 3 | 95 PERCENT | 34 | 5.7 | 4.5 | 130 | 100 | 20 | 13 | 62 | | |
| SHREVEPORT | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM | 41 | 35 | 1.12 | 43 | 4.3 | 84 | DELTAPINE 16 | | 23 | 8.1 | 2.0 | 2 | 3 | 100 PERCENT | 39 | 6.3 | 5.4 | 120 | 80 | 16 | 15 | 65 | | |
| MISSISSIPPI | | | | | | | | | | | | | | | | | | | | | | | | |
| BELZONI | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SLM | 41 | 35 | 1.12 | 45 | 4.5 | 88 | DELTAPINE 16 | | 25 | 7.7 | 2.7 | 2 | 2 | 100 PERCENT | 41 | 6.8 | 5.2 | 110 | 80 | 12 | 9 | 73 | | |
| BRUCE | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SLM | 41 | 35 | 1.09 | 45 | 4.2 | 83 | STONEVILLE 213 | | 22 | 7.4 | 2.3 | 1 | 3 | 90 PERCENT | 37 | 6.6 | 4.7 | 100 | 70 | 19 | 14 | 65 | | |
| EDWARDS | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SLM | 41 | 35 | 1.10 | 47 | 4.7 | 82 | STONEVILLE 213 | | 23 | 7.5 | 2.1 | 2 | 3 | 85 PERCENT | 37 | 6.4 | 4.8 | 120 | 90 | 11 | 7 | 69 | | |
| GUNNISON | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SLM | 41 | 35 | 1.10 | 43 | 4.5 | 81 | DELTAPINE 16 | | 22 | 7.7 | 2.0 | 1 | 3 | 100 PERCENT | 35 | 6.5 | 4.9 | 90 | 70 | 23 | 25 | 63 | | |
| HERNANDO | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SLM | 41 | 34 | 1.09 | 43 | 4.1 | 85 | DELTAPINE 16 | | 24 | 7.4 | 3.4 | 2 | 3 | 100 PERCENT | 39 | 7.0 | 5.0 | 100 | 70 | 16 | 15 | 72 | | |
| INDIANOLA | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SLM | 41 | 34 | 1.09 | 46 | 4.7 | 84 | DELTAPINE 16 | | 25 | 8.1 | 3.2 | 2 | 2 | 100 PERCENT | 41 | 6.7 | 5.0 | 120 | 90 | 11 | 10 | 70 | | |

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1972--(Continued)

| Production Area, Classification & Sample Number | | | | Fiber Test Results | | | | | | | | | | Processing Test Results - Carded Yarns | | | | | | | | | |
|---|-------|-------------|-------|--------------------|-----|--------------------|------|----------------|------|------------------|---------------|-----------------|-------------|--|----------|-----|--------------|--------------|------------------|--------------|--------------|-----|-------------------|
| No | Grade | Name & Code | Stple | 32s | | Digital Fibrograph | Mike | Fiber Strength | | Elon- gat'n 1/8" | S.A. Non-Lint | Color Raw Stock | | P & C Waste | Strength | | Elongation | | Appearance Index | | Imprfct'ns | | Spin. Potent- ial |
| | | | | In | Pct | | | Zero Gage | Mpsi | | | G/tex | Pct | | Gra | Yel | 22s or 27 tx | 50s or 12 tx | Pct | 22s or 27 tx | 50s or 12 tx | Pct | |
| SOUTH CENTRAL AREA --(Continued) | | | | | | | | | | | | | | | | | | | | | | | |
| MISSISSIPPI--(Continued) | | | | | | | | | | | | | | | | | | | | | | | |
| INDIANOLA | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 35 | 1.06 | 46 | 4.5 | 92 | 25 | 5.3 | 4.1 | 3 | 3 | 100 PERCENT | 6.0 | 38 | 5.8 | 4.5 | 100 | 80 | 22 | 12 | 71 | |
| LELAND | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 35 | 1.07 | 45 | 4.3 | 89 | 23 | 6.9 | 3.7 | 2 | 3 | 100 PERCENT | 7.2 | 37 | 6.5 | 4.8 | 120 | 90 | 8 | 8 | 66 | |
| SAROIS | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | 41 | 35 | 1.11 | 46 | 4.8 | 84 | 23 | 7.1 | 2.7 | 2 | 3 | 95 PERCENT | 6.0 | 37 | 6.5 | 4.8 | 100 | 70 | 19 | 11 | 70 | |
| TRALAKE | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.12 | 45 | 4.8 | 86 | 24 | 7.9 | 1.7 | 1 | 2 | 100 PERCENT | 5.0 | 39 | 6.4 | 5.0 | 120 | 90 | 8 | 6 | 67 | |
| TRIBRETT | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.09 | 43 | 4.0 | 87 | 23 | 6.6 | 2.5 | 2 | 3 | 100 PERCENT | 6.2 | 35 | 6.2 | 4.5 | 100 | 70 | 12 | 14 | 65 | |
| TUNICA | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | 51 | 35 | 1.09 | 43 | 4.6 | 83 | 23 | 6.7 | 3.3 | 3 | 3 | 100 PERCENT | 5.8 | 31 | 5.8 | 4.5 | 100 | 70 | 14 | 12 | 62 | |
| WATER VALLEY | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.10 | 44 | 4.0 | 82 | 24 | 8.5 | 2.8 | 1 | 2 | 95 PERCENT | 5.4 | 37 | 7.4 | 5.8 | 100 | 70 | 19 | 20 | 69 | |
| MISSOURI | | | | | | | | | | | | | | | | | | | | | | | |
| SENATH | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.09 | 42 | 4.1 | 82 | 22 | 8.3 | 1.1 | 2 | 3 | 75 PERCENT | 4.6 | 37 | 6.9 | 5.3 | 90 | 70 | 15 | 16 | 70 | |
| SIKESTON | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LM | 51 | 35 | 1.07 | 45 | 3.9 | 75 | 22 | 7.9 | 3.4 | 2 | 3 | 100 PERCENT | 7.0 | 35 | 6.8 | 5.3 | 90 | 70 | 24 | 14 | 64 | |
| TENNESSEE | | | | | | | | | | | | | | | | | | | | | | | |
| MILLINGTON | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 34 | 1.09 | 45 | 4.1 | 84 | 22 | 6.6 | 2.9 | 2 | 3 | 90 PERCENT | 5.6 | 36 | 6.3 | 4.7 | 120 | 90 | 15 | 13 | 65 | |
| RIDGELY | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SLM | 41 | 35 | 1.10 | 43 | 4.1 | 76 | 21 | 8.4 | 1.7 | 1 | 3 | 98 PERCENT | 4.8 | 37 | 7.2 | 5.7 | 90 | 70 | 23 | 20 | 71 | |
| SOMERVILLE | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | 41 | 34 | 1.07 | 44 | 4.1 | 83 | 22 | 7.9 | 2.1 | 2 | 3 | 98 PERCENT | 6.1 | 35 | 6.6 | 4.8 | 100 | 70 | 11 | 11 | 66 | |
| 2 | SLM | 41 | 34 | 1.06 | 45 | 4.3 | 81 | 23 | 8.0 | 2.5 | 2 | 3 | 5.7 | 5.7 | 33 | 6.7 | 4.7 | 110 | 80 | 17 | 13 | 64 | |

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1972

| Production Area, Classification & Sample Number | | | | Fiber Test Results | | | | | | | | | | Processing Test Results - Carded Yarns | | | | | | | | | | | |
|---|-------------------|-------|-----|--------------------|-------|------|----------------|-----------|------------------|---------------|-----|-----------------|-----|--|--------------|--------------|--------------|--------------|------------------|--------------|--------------|--------------|-------------------|--|--|
| No | Grade Name & Code | Stple | 32s | Digital Fibrograph | | Mike | Fiber Strength | | Elon- gat'n 1/8" | S.A. Non-Lint | | Color Raw Stock | | P & C Comber Waste | Strength | | Elongation | | Appearance Index | | Imprfct'ns | | Spin. Poten- tial | | |
| | | | | 2.5% span | Unif. | | Zero gage | 1/8" gage | | Pct | Pct | Gra | Yel | | 22s or 27 tx | 50s or 12 tx | 22s or 27 tx | 50s or 12 tx | 22s or 27 tx | 50s or 12 tx | 22s or 27 tx | 50s or 12 tx | | | |
| SOUTHEASTERN AREA | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORRVILLE | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SLM | | 41 | 34 | 1.04 | 43 | 4.4 | 85 | 24 | 7.3 | 2.6 | 3 | 3 | 100 PERCENT | 87 | 25 | 5.8 | 4.0 | 100 | 70 | 19 | 10 | 54 | | |
| | | | | | | | | | | | | | | * 21.2 | 109 | 37 | 6.7 | 5.0 | 120 | 90 | 5 | 5 | | | |
| SULLIGENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | | 51 | 34 | 1.09 | 43 | 3.9 | 84 | 22 | 7.1 | 3.3 | 2 | 3 | 90 PERCENT | 99 | 33 | 6.5 | 4.8 | 110 | 80 | 9 | 10 | 66 | | |
| | | | | | | | | | | | | | | * 17.8 | 114 | 40 | 6.7 | 5.2 | 120 | 100 | 5 | 4 | | | |
| SOUTH CENTRAL AREA | | | | | | | | | | | | | | | | | | | | | | | | | |
| MISSISSIPPI | | | | | | | | | | | | | | | | | | | | | | | | | |
| MORGAN CITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LM | | 51 | 37 | 1.18 | 44 | 4.4 | 91 | 24 | 6.6 | 4.5 | 3 | 2 | 100 PERCENT | 116 | 44 | 5.9 | 5.0 | 90 | 80 | 15 | 13 | 78 | | |
| | | | | | | | | | | | | | | * 16.4 | 132 | 51 | 6.7 | 5.2 | 110 | 90 | 9 | 7 | | | |
| WESTERN AREA | | | | | | | | | | | | | | | | | | | | | | | | | |
| NEW MEXICO | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARTESIA | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | MID | | 31 | 37 | 1.15 | 45 | 3.7 | 93 | 27 | 6.3 | 1.7 | 1 | 3 | 100 PERCENT | 133 | 50 | 6.4 | 5.1 | 90 | 70 | 15 | 14 | 79 | | |
| | | | | | | | | | | | | | | * 15.9 | 152 | 58 | 6.7 | 5.5 | 100 | 70 | 10 | 9 | | | |
| 2 | MID | | 31 | 37 | 1.21 | 44 | 3.7 | 91 | 25 | 6.9 | 1.7 | 1 | 3 | 6.1 | 132 | 52 | 6.5 | 5.7 | 90 | 70 | 25 | 19 | 90 | | |
| | | | | | | | | | | | | | | * 15.1 | 148 | 58 | 7.1 | 5.8 | 90 | 70 | 14 | 13 | | | |
| HAGERMAN | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | | 41 | 37 | 1.18 | 45 | 4.0 | 94 | 27 | 6.3 | 3.0 | 2 | 3 | 100 PERCENT | 130 | 52 | 6.4 | 5.3 | 100 | 70 | 26 | 24 | 89 | | |
| | | | | | | | | | | | | | | * 14.5 | 148 | 58 | 6.5 | 5.6 | 100 | 80 | 15 | 12 | | | |
| WEST TEXAS | | | | | | | | | | | | | | | | | | | | | | | | | |
| EL PASO | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | MID | | 31 | 37 | 1.18 | 46 | 4.2 | 92 | 27 | 6.2 | 2.2 | 1 | 3 | 75 PERCENT | 126 | 48 | 6.1 | 5.0 | 90 | 70 | 26 | 20 | 86 | | |
| | | | | | | | | | | | | | | * 15.4 | 141 | 55 | 6.4 | 5.7 | 90 | 80 | 11 | 8 | | | |
| EL PASO | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SLM | | 41 | 37 | 1.16 | 44 | 4.0 | 99 | 25 | 6.4 | 2.9 | 2 | 3 | 91 PERCENT | 128 | 48 | 6.3 | 5.0 | 90 | 70 | 35 | 20 | 85 | | |
| | | | | | | | | | | | | | | * 16.5 | 158 | 56 | 6.9 | 5.6 | 110 | 80 | 16 | 12 | | | |

* Comber Waste and Combed Yarn Data.

1/ 100 percent selected for tests, less than 100 percent in the area

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1972

| Production Area, Classification & Sample Number | | | | Fiber Test Results | | | | | | | | | | Processing Test Results - Combed Yarns | | | | | | | | | |
|---|-------|-------------|--------------|--------------------|------|----------------|-----------|-----------------|---------------|-----------------|-----|-------------|--------------|--|---------------|--------------|-------------|------------------|-------------|--------------|-------------|----|---|
| Sample Number | | Stple | Array Length | | Mike | Fiber Strength | | Elon-gat'n 1/8" | S.A. Non-Lint | Color Raw Stock | | P & C Waste | Comber Waste | Strength | | Elongation | | Appearance Index | | Imprfct'ns | | | |
| | | | UQL | CV | | Zero Gage | 1/8" Gage | | | Gra | Yel | | | 50s or 12 tx | 80s or 7 tx | 50s or 12 tx | 80s or 7 tx | 50s or 12 tx | 80s or 7 tx | 50s or 12 tx | 80s or 7 tx | | |
| No | Grade | Name & Code | 32s | In | Pct | Rdg | Mpsi | G/tex | Pct | Pct | No | No | Pct | Pct | Lbs | Lbs | Pct | Pct | No | No | No | No | |
| WESTERN AREA | | | | | | | | | | | | | | | | | | | | | | | |
| WEST TEXAS | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4 | 44 | | 1.52 | 32 | 4.0 | 100 | 31 | 9.5 | 2.6 | 4 | 6 | 8.2 | 17.5 | 98 PERCENT | 64 | 36 | 6.1 | 5.4 | 120 | 130 | 5 | 3 |
| EL PASO | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3 | 44 | | 1.50 | 33 | 3.4 | 103 | 31 | 8.6 | 1.7 | 5 | 6 | 6.6 | 17.7 | 99 PERCENT | 63 | 35 | 6.1 | 5.1 | 110 | 120 | 4 | 4 |
| PECOS | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3 | 44 | | 1.38 | 30 | 4.0 | 97 | 33 | 8.5 | 1.5 | 4 | 6 | 7.0 | 17.6 | 100 PERCENT * | 63 | 35 | 5.7 | 5.0 | 110 | 120 | 3 | 2 |

* 100 percent selected for tests, less than 100 percent in the area

